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Vincent van Gogh

Born March 1853, Van Gogh's artistic career was brief, but in giving expression to a passionate vision of nature and humanity, he has become one of the most revered and influential painters of his time. Following his death, his paintings came to be acknowledged by critics and the public as constituting one of the highest achievements of nineteenth century art.

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global warming   ✕   **Search** ⑦

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Topic Overview
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Global warming is the term applied specifically to indicate rising average global air temperatures. This rise in temperature has the potential to cause... More
Salem Press Encyclopedia of Science, 2016
Other Topics: Bioethics and **global warming**.

Boolean/Phrase:
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1950   Publication Date   2016

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1. **Global warming**, the atmospheric brown cloud, and the changing Indian summer monsoon.

   By: Liepert, Beate G.; Giannini, Alessandra. *Bulletin of the Atomic Scientists*. Jul2015, Vol. 71 Issue 4, p23-30. 8p. 1 Color Photograph, 1 Graph. DOI: 10.1177/0096340215590802.

   Much scientific discussion has focused on rising greenhouse gas emissions and changing rainfall patterns in an increasingly warmer world. In fact, preventing the worst impacts of climate change o...

   Periodical

   Subjects: MONSOONS -- India; DROUGHTS -- India; GREENHOUSE gas mitigation; EMISSIONS (Air pollution); **GLOBAL** warming -- Research

   📄 PDF Full Text (438KB)

2. **Global Warming : Teacher's Guide**

   Series: Think Green. Irvine : Saddleback Educational Publishing. 2010. eBook.

   Designed to work with both differentiated levels of Think Green, these 24 pages teacher's guides were develop in a consultation with several state educational standars and contain multiple compon...

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Title: Global Warming. By: Keating, Christopher, Salem Press Encyclopedia of Science, January, 2016

Database: Topic Overviews 6-12

Global Warming

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Last reviewed: February 2016

Global warming is the term applied specifically to indicate rising average global air temperatures. This rise in temperature has the potential to cause drastic changes in climate and weather patterns worldwide by disrupting the equilibrium between incoming solar energy and the thermal energy that is reradiated away from the surface.

Greenhouse Effect

"Global warming" is the term for the rise in Earth's average atmospheric temperature. It is known that Earth's average global temperature has been rising slowly over time, a trend that has been particularly noted since the beginning of the Industrial Revolution in the second half of the eighteenth century. It is generally conceded that increases in air temperature could alter precipitation patterns, change growing seasons, result in coastal flooding, and turn some currently fertile areas into deserts. The exact cause or causes of this phenomenon are not known, but global warming could be part of a normal climate cycle, be caused by natural events, or arise through the activities of humankind.

Earth's Energy Budget: The earth's energy budget is a model for evaluating the energy gains and losses to the atmosphere. © EBSCO

When the ground surface is heated by sunlight, it emits much of the solar energy it has absorbed as infrared radiation. Gases in the atmosphere absorb the reradiated infrared radiation and prevent it from escaping into space. This is called the "greenhouse effect" because it was once believed that the glass panes of greenhouses captured the infrared radiation given off by the soil inside the greenhouse. Although it has since been shown that greenhouses work by trapping heated air and not allowing it to blow away, the name has stuck.

The atmosphere eventually releases its contained heat into space and the amount of heat stored in the atmosphere remains fairly constant as long as the composition of gases in the atmosphere does not change. Some gases, including carbon dioxide, water vapor, and methane, capture and store infrared radiation, or heat, more efficiently than others and are called "greenhouse gases." If the composition of the atmosphere changes to include more of these greenhouse gases, the atmosphere retains more heat and becomes warmer.

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Source: Bulletin of the Atomic Scientists

Date: July 1, 2015

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Feature

Bulletin of the Atomic Scientists
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Global warming, the atmospheric brown cloud, and the changing Indian summer monsoon

Beate G. Liepert and Alessandra Giannini

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Abdullah II, King of Jordan   Adichie, Chimamanda Ngozi   Albright, Madeleine   Audubon, John James

Adams, Abigail   Ahmadinejad, Mahmoud   Ashe, Arthur

Adams, John   al-Maliki, Nuri   Avicenna

B

Bin Laden, Osama   Biden, Joseph R.   Boxer, Barbara   Bush, George W.

Barak, Ehud   Bolt, Usain   Bradley, Bill

Ben Ali, Zine el-Abidine   Bonds, Barry   Breyer, Stephen

C

Carey, Peter   Castro, Raul   Clinton, Hillary Rodham   Castro, Fidel

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